

#### ABSTRACT OF THE DISCLOSURE

[0041] Presented herein is a system, method, and apparatus for firmware code-coverage in complex system on chip. A circuit for analyzing code coverage of firmware by test inputs comprises an input and a memory. The input receives an address from a code address bus. The memory stores recorded addresses from the code address bus. The memory comprises a plurality of memory locations, each of the memory locations mapped to a particular one of a corresponding plurality of addresses associated with the firmware. The contents of the memory location associated with the address received from the code address bus being incremented responsive to receipt of the address.